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JACKSON COUNTY LANDFILL
Project No. 86216
February 3, 1987

| Project No. | Date | Location |
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| bc | 3/3/87 | DN |

The following is a report of recommendations for correcting problems at the base of the landfill. And answers questions raised by the State concerning the landfill operation.

CHRONOLOGY

Early in 1984, the current landfill operational plans were prepared for the operation of the Dillsboro landfill. On April 27, 1984, the Solid Waste permit was issued for the expansion of the Dillsboro Landfill. During the approval process, approval was granted for Jackson Paper Manufacturing Company in Silva, North Carolina to dispose of boiler ash and rejects, primarily waste paper sludge at the Dillsboro landfill. This material was to be placed at the base of the landfill as detailed on sheet 2 of 12 of the landfill operational plans. This approval was granted on April 19, 1984. This approval also included three conditions under which the material could be placed in the landfill.

1. The waste be non-liquid and can be confined, compacted and covered in accordance with the Solid Waste management rules.
2. That the owner or operator of the landfill approves the disposal.
3. Measures are taken to minimize airborne conditions during disposal.

During early discussions at various times with George Hiddeman, Carr Tyndall (both of Jackson Paper Manufacturing Company,) a representative of Wilkins, Watson and Fortner, Inc. (Consulting Engineers), Woody Hampton (Jackson County Planner), and George Jensen, P.E. (at that time with Butler Associates) several items were discussed.

The waste sludge with approximately 85% moisture was being stockpiled to reduce the moisture content, and as mentioned in the Operational Report, Jackson Paper was to begin a dewatering process in the next few months. Mr. Hiddeman explained that Jackson Paper planned to incinerate the sludge in a co-generation operation in the near future and only the ash, some plastics and bailing wire would need to be landfilled.

A meeting of the majority of the persons named above was held at the landfill to discuss the method of operation and the need to perform the burial operation in a manner to prevent the very problems that are now apparent; such as improper drainage, insufficient cover and general unsightliness.

FINDINGS

It is our understanding from conversations with Tom Massie, County Planner, Jackson County, that when the operation was first begun by Jackson Paper Manufacturing Company that they had hired a private contractor to excavate, dispose and cover this material at the base of the landfill in the area provided. During the time the private contractor was in charge of that operation the process went smoothly and was meeting the requirements of the State of North Carolina. Since that time Jackson Paper Company has taken over the operation and the process is on longer within specified conditions nor has it been done in the acceptable manner.

Please refer to revised sheet 2 of 12 of the landfill operational plans to understand the following narrative:

It is apparent that no comprehensive plan has been followed in stockpiling the material on site by Jackson Paper Company. Items indicated as number 1 and 3 are two large stockpiles of wastepaper sludge, number 3 being the largest. One of the most objectionable practices was to allow leachate to build up between these two piles, indicated by number 2. There is a large fowl smelling leachate pond between these two piles which can cause nothing but problems. The monitoring well indicated by number 5 on the plan has been destroyed. This severely limits the county's ability to monitor and contain leachate. In addition to these items the outlet structure proposed at location 6 should be installed as soon as possible. Also a primary silt basin at location 4 should be constructed as soon as feasible.

RECOMMENDED CORRECTIVE MEASURES

To bring this area at the base of the landfill into compliance the following items of work need to be performed.

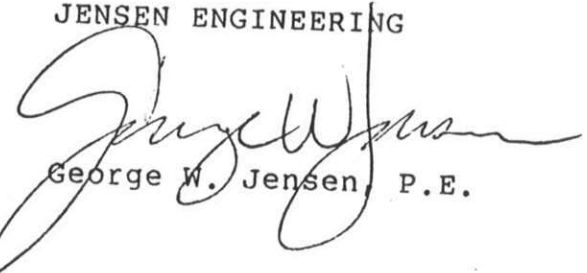
By Jackson County:

1. Construct silt basin at location 4, according to the attached plans on sheet 4 of 12 and 12 of 12.
2. To install the perforated pipe riser and gravel filter at location number 6.

By Jackson Paper Manufacturing Company:

1. Re-work and compact the stockpiles at locations number 1 and 3 and slope these top surfaces to drain toward the highway. Provide at least 12 inches of compacted cover to prevent any future rainwater from soaking in through the material forming more leachate.
2. At location number 2 pump the leachate out in containerized vehicles and transport to Jackson Paper Company to be processed in their pre-treatment program prior to discharge into the County sewer system. When the leachate has been removed, fill the area beginning with at least a 2 foot layer of soil and then bury additional sludge material to the point that the entire area can be brought up to the same level and sloped to drain toward the highway and covered with clean compacted fill material.
3. To repair with state approval the monitoring well at location 5 or to install a new monitoring well in the same general area.
4. To cease burial of any further material until moisture content can be reduced to a desirable level.
5. To discuss with the County concerning any future use of the burial area or to locate an alternate area for disposal of this material.
6. To install a diversion ditch above the fill area to drain toward the silt basin, indicated as number 6, as originally shown on sheet 2 of 12.
7. To grass the cover material to form an attractive erosion resistant surface and to leave the area in an acceptable condition.

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